

# Transient Electromagnetic System for Geophysical Exploration

This system is designed for investigation works including metal mine, coal field, oil field gas, geothermal, and water resources surveys. It also supports environmental pollution detection with lead synchronization technology.



## ADDITIONAL IMAGES



## System Overview

### Advanced Geophysical Exploration System

This transient electromagnetic system is designed for comprehensive subsurface investigation, suitable for metal mining, coal fields, oil and gas exploration, and geothermal and water resource surveys. It utilizes advanced lead synchronization and FPGA technology to achieve high-resolution data acquisition and ultra-high power detection ranges. Engineered for portability and durability, the system features a robust design capable of operating in complex geological environments and mountainous terrain.

#### Primary Applications

Metal Mine Exploration, Coal Field Survey, Oil & Gas Exploration, Geothermal Survey, Water Resource Mapping, Environmental Pollution Detection

## Receiver Specifications

Dimensions	36 x 23 x 30 cm
Weight (without cells)	7 kg
Sampling Frequency	Fastest 5%
Dynamic Range	1~156 db
Storage Capacity	128M Memory, 4G Storage

## Transmitter Specifications

### Rated Output Power

**10 Kw**

Rated Output Power

**360 V**

Max Output Voltage

**50 A**

Continuous Output Current

Minimum Shutoff Time	1.2 s
Frequency Range	1.25~125 Hz (8 frequency spots)
Dimensions	490 x 300 x 310 mm
Weight	12 kg